

Proposal Full View

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Applicant Information

Organization Name Antelope Valley - East Kern Water Agency *

Tax ID 952090223

Proposal Name Water Supply Stabilization Project No. 2 (WSSP2) *

Proposal Objective The WSSP2 is a groundwater basin banking project that will increase the reliability of the Antelope Valley Region's water supplies through construction of the necessary infrastructure to store excess water available from the State Water Project (SWP) during wet periods and recover and serve it to customers during dry and high demand periods or during a disruption in deliveries from the SWP. By "banking" excess water for future use, the WSSP2 will significantly reduce the Region's dependence on constant water deliveries from the Delta. The WSSP2 will also increase the amount of groundwater in the basin through recharge and preserve agricultural land and open space. *

Budget

Other Contribution	\$0.00
Local Contribution	\$31,573,572.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested	\$6,000,000.00 *
Total Project Cost	\$37,573,572.00 *

Geographic Information

Latitude * DD(+/-) 34 MM 49 SS 0

Longitude * DD(+/-) 118 MM 10 SS 0

Longitude/Latitude Clarification None Location Intersection Ave. "A" and State Highway 14

County Kern (portion of), Los Angeles, San Bernardino *

Ground Water Basin Antelope Valley

Hydrologic Region South Lahontan

Watershed Antelope Valley

Legislative Information

Assembly District 32nd Assembly District, 34th Assembly District, 36th Assembly District, 37th Assembly District *

Senate District 17th Senate District, 18th Senate District *

US Congressional District District 22 (CA), District 25 (CA) *

Project Information

Project Benefits Information

Project Name Water Supply Stabilization Project No. 2 (V)

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Other-Improved Water Supply Facilities	20	AVEK will recharge up to 23,000 Ac Ft of water per year during wet years and will recover up to 90% of the recharged water during dry years when supplies from the State Water Project are low.
Primary	Water Storage -- Groundwater-Water Supply Enhancement	23000	AVEK will recharge unused water from their State Water Project contracted supplies during low demand periods expected to be November through February.

Primary	Water Storage -- Groundwater- Recharge area developed	23000	AVEK will construct a total of 400 gross acres of recharge basins which are expected to percolate at a rate of a half of foot a day. Recharge will take place during low demand months which are expected to be November Through February.
Primary	Water Storage -- Surface-Water Quality Improvement	191	AVEK expects to treat the surface water from the California Aqueduct as it passes through the various soil layers during the recharge process. When the recharged water is recovered AVEK will simply chlorinate the water to meet current potable water standards at the proposed Recovered Water Pump Station site.
Secondary	Groundwater Management- Groundwater quality samples taken	0	As part of the Performance Monitoring and Assessment Plan for the Project AVEK will collect samples from about 8 monitoring wells on or near the recharge basin site which will determine the water quality of the groundwater basin.
Secondary	Groundwater Management- Water level measurements taken	0	As part of the Performance Monitoring and Assessment Plan for the Project AVEK will monitor the groundwater levels through 8 monitoring wells on or near the recharge basin.

Budget

Other Contribution	0
Local Contribution	31573572
Federal Contribution	0
Inkind Contribution	0
Amount Requested	6000000
Total Project Cost	37573572

Geographic Information

Latitude DD(+/-)	34	MM 49	SS 0
Longitude DD(+/-)	118	MM 19	SS 0
Longitude/Latitude Clarification	None	Location	Intersection Ave. "A-E"

County	Kern (portion of), Los Angeles, San Bernardino
Ground Water Basin	Antelope Valley
Hydrologic Region	South Lahontan
WaterShed	Antelope Valley

Legislative Information

Assembly District	32nd Assembly District, 34th Assembly District, 36th Assembly District, 37th Assembly District
Senate District	17th Senate District, 18th Senate District
US Congressional District	District 22 (CA), District 25 (CA)

Section : Applicant Information and Question's Tab

APPLICANT INFORMATION AND QUESTION'S TAB

01. PROPOSAL DESCRIPTION

Provide a brief abstract of the Proposal, including a listing of individual project titles or types. Please note which projects, if any, directly address a critical water supply or water quality issue for a DAC or Native American Tribal communities.

The WSSP2 is a single project which proposes to construct a groundwater recharge and recovery project on land already owned by AVEK. SWP water will be delivered to the recharge site through AVEK's existing West Feeder. The Project includes about 400 acres of recharge ponds, five recovery wells, pipelines, and a pump station to pump the recovered water into AVEK's South-North Intertie Pipeline (SNIP) from which the recovered water can be delivered to any of AVEK's customers.

Q2. PROJECT DIRECTOR

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Dan Flory, General Manager 6500 West Avenue N Palmdale, Ca. 93551 661.943.3201 dflory@avek.org

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Tom Barnes, Resource Manager 6500 West Avenue N Palmdale, Ca. 93551 661.943.3201 tbarnes@avek.org

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

Antelope Valley-East Kern Water Agency 6500 West Avenue N Palmdale, Ca. 93551

Q5. ADDITIONAL INFORMATION

Provide the funding area(s) in which projects are located.

http://www.water.ca.gov/irwm/integregio_fundingarea.cfm

Lahontan Funding Area (Antelope Valley)

Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD(S)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

http://www.waterboards.ca.gov/waterboards_map.shtml

Lahontan Regional Water Quality Control Board

Q7. ELIGIBILITY

Proposition 84 requires a minimum funding match of 25% of total project cost unless there is a DAC project included in the proposal. Requirements for DAC funding match reductions are included in Exhibit G of this PSP. If your matching funds are less than 25%, please explain.

The total Project cost is estimated to be \$37,573,572. AVEK is requesting \$6,000,000 from Proposition 84 funds. AVEK will fund the remainder or about 84%.

Q8. ELIGIBILITY

Does the application represent a single application from an IRWM Region approved in the RAP (see Section II.B, Table 1)? If yes, include the name of the IRWM Region. If not, explain.

Lahontan Funding Area???Antelope Valley.

Q9. ELIGIBILITY

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

a) Yes

b) No

Q10. ELIGIBILITY

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q11 and Q12.

AVEK is the sole sponsor of the proposal

Q11. ELIGIBILITY

Have all of the urban water suppliers, listed in Q10 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q10, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

AVEK has submitted the 2005 and 2008 Urban Water Management Plan to DWR. AVEK has not received any confirmation accepting the Plan as complete. AVEK is committed to comply with any additional requirements issued by DWR to deem the Plan as complete before the execution of the Grant Agreement. AVEK is also committed to submit an updated UWMP which is consistent with the 2010 UWMP Guidebook to be verified as complete by DWR before the execution of a grant agreement.

Q12. ELIGIBILITY

Have any urban water suppliers listed in Q10 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the Guidelines for additional information.

AVEK will submit self certifications for AB 1420 as part of this Grant Proposal

Q13. ELIGIBILITY

Does the Proposal include any groundwater management or groundwater recharge projects or projects with potential groundwater impacts? If so, provide the name(s) of the project(s) and list the agency(ies) that will implement the project(s).

The project is eligible for proposition 84 funds as it is a groundwater recharge and recovery project. The project name is Water Supply Stabilization Project No. 2 and it will be implemented by the Antelope Valley-East Kern Water Agency.

Q14. ELIGIBILITY

For the agency(ies) listed in Q13, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section IIIB of the Grant Guidelines?

The Antelope Valley IRWM Plan, as prepared and adopted by AVEK and the other members of the Antelope Valley Regional Water Management Group, meets all of the requirements of a Groundwater Management Plan in compliance with CWC ?? 10753.7. The following Assembly Bill (AB) 3030 elements are associated with groundwater supply management within the Antelope Valley Region. A discussion of how these elements are addressed in the Antelope Valley IRWM Plan is provided below. Mitigation of Conditions of Overdraft. Although the groundwater basin is not currently adjudicated, an adjudication process has begun. Although there are no existing restrictions on pumping, water rights may be assigned as part of the adjudication process. The groundwater adjudication process is a management action discussed in the Antelope Valley IRWM Plan. Replenishment of Groundwater Extracted by Water Producers. Several groundwater recharge and banking projects are being considered and evaluated as part of the IRWM Plan. Additionally, Edwards AFB has been actively involved in projects aimed at refilling the depleted aquifers. The goals of these projects are to recharge/bank sufficient groundwater supply in wet years for use during dry years, thereby minimizing long-term impacts to groundwater levels. Monitoring of Groundwater Levels and Storage. Groundwater level and storage monitoring is a direct indicator of the groundwater supply. The Water Supply Management Strategy (WSMS) (provided in Section 5 of the IRWM Plan) includes management and compilation of groundwater levels and water quality data. Facilitating Conjunctive Use Operations. Conjunctive use operations relate to the combined use of surface water and groundwater to optimize resources and minimize adverse effects of using a single source. Conjunctive use will be facilitated as part of the IRWM Plan through many of the water supply management projects in the WSMS described in more detail in Section 5 of the IRWM Plan. Conjunctive use opportunities with native water is limited, however, due to the relatively small amount of native surface and groundwater available. Thus, the success of conjunctive use operations will depend heavily on the ability to import water from outside of the Antelope Valley Region.

Q15. ELIGIBILITY

Does the IRWM region receive water supplied from the Sacramento-San Joaquin Delta? Please answer yes or no. If no, please explain. If yes, please answer Question 16.

State Water Project Contractors that supply water to the Antelope Valley IRWM Region have a combined Table A Allocation of 165,000 acre-feet per year of water supplied from the Sacramento-San Joaquin Delta.

Q16. ELIGIBILITY

Does the existing IRWM Plan help reduce dependence on the Sacramento-San Joaquin Delta for water supply? Please answer yes or no. If no, please explain. If yes, please complete Attachment 15.

The portfolio of projects and programs that make up the AVIRWM Plan help reduce dependence on the Sacramento-San Joaquin Delta for water supply. Attachment 15 has been completed to demonstrate the reduction of delta water dependence.

Q17. ELIGIBILITY

If an update to the plan takes place in the near future, will the updated plan continue to reduce dependence on the Sacramento-San Joaquin Delta for water supply? Please answer yes or no. If no, please explain. If yes, please complete Attachment 15.

The Antelope Valley IRWM Group was recently awarded Proposition 84 Planning grant funding to update the IRWM Plan. The IRWM Plan updates, along with this proposed WSSP2 Project, will continue to include projects and programs that reduce dependence on the Sacramento-San Joaquin Delta for water supply. Attachment 15 has been completed for further explanation

Section : Application Attachments Tab**APPLICATION ATTACHMENTS TAB****A1. ATTACHMENT 1**

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att1_IG1_AntelopeValley_Eligible_1of4.pdf

Upload additional Authorization and Eligibility documentation here.

Last Uploaded Attachments:
Att1_IG1_AntelopeValley_Eligible_2of4.pdf

Upload additional Authorization and Eligibility documentation here.

Last Uploaded Attachments:

Upload additional Authorization and Eligibility documentation here.

Last Uploaded Attachments: Att1_IG1_AntelopeValley_Eligible_4of4.pdf

Att1_IG1_AntelopeValley_Eligible_3of4.pdf

Upload additional Authorization and Eligibility documentation here.

Last Uploaded Attachments:

A2. ATTACHMENT 2

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att2_IG1_AntelopeValley_Adopt_1of3.pdf

Upload additional Proof of Formal Adoption documentation here.

Last Uploaded Attachments:

Att2_IG1_AntelopeValley_Adopt_2of3.pdf

Upload additional Proof of Formal Adoption documentation here.

Last Uploaded Attachments: Att2_IG1_AntelopeValley_Adopt_3of3.pdf

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

A3. ATTACHMENT 3

Upload the Work Plan here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att3_IG1_AntelopeValley_WorkPlan_1of1.pdf

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

A4. ATTACHMENT 4

Upload the Budget here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att4_IG1_AntelopeValley_Budget_1of1.pdf

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

A5. ATTACHMENT 5

Upload the Schedule here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att5_IG1_AntelopeValley_Schedule_1of2.pdf

Upload additional schedule components here.

Last Uploaded Attachments:

Att5_IG1_AntelopeValley_Schedule_2of2.pdf

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

A6. ATTACHMENT 6

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att6_IG1_AntelopeValley_Measures_1of1.pdf

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

A7. ATTACHMENT 7

Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att7_IG1_AntelopeValley_WSBen_1of1.pdf

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

A8. ATTACHMENT 8

Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att8_IG1_AntelopeValley_WQOtherBen_1of1.pdf

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Section : Application Attachments Tab (cont)

APPLICATION ATTACHMENTS TAB (CONT)

A9. ATTACHMENT 9

Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att9_IG1_AntelopeValley_DReduc_1of1.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

A10. ATTACHMENT 10

Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att10_IG1_AntelopeValley_BSummary_1of1.pdf

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

A11. ATTACHMENT 11

Upload Program Preference documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att11_IG1_AntelopeValley_Preference_1of1.pdf

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

A12. ATTACHMENT 12

Upload Disadvantaged Community Assistance documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att12_IG1_AntelopeValley_DAC_1of1.pdf

Upload additional Disadvantaged Community Assistance documentation here.

Upload additional Disadvantaged Community Assistance documentation here.

Upload additional Disadvantaged Community Assistance documentation here.

Upload additional Disadvantaged Community Assistance documentation here.

A13. ATTACHMENT 13

Upload AB 1420 and Water Meter Compliance documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att13_IG1_AntelopeValley_AB1420_1of1.pdf

Upload additional AB 1420 and Water Meter Compliance documentation here.

Upload additional AB 1420 and Water Meter Compliance documentation here.

Upload additional AB 1420 and Water Meter Compliance documentation here.

Upload additional AB 1420 and Water Meter Compliance documentation here.

A14. ATTACHMENT 14

Upload Consent Form here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att14_IG1_AntelopeValley_Consent_1of1.pdf

Upload additional Consent Form documentation here.

Upload additional Consent Form documentation here.

Upload additional Consent Form documentation here.

Upload additional Consent Form documentation here.

A15. ATTACHMENT 15

Upload IRWM Plan - Reduce Delta Water Dependence documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin). For the "AttachmentName" in the naming convention of BMS, use "Delta" for this attachment.

Last Uploaded Attachments: Att15_IG1_AntelopeValley_Deltawater_1of1.pdf

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.